INTERNATIONALSEARCHREPORT

International application No.

PCT/JP2004/018076

A.	CLASSIFICATIONOFSUBJECTMATT	ER
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Int.Cl7 H01L21/336,G02F1/1368,G09F9/30,H01L21/288,H01L21/3205,H01L29/786

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation scarched (classification system followed by classification symbols)

Int.Cl7 H01L21/336,G02F1/1368,G09F9/30,H01L21/288,H01L21/3205,H01L29/786

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2005, Japanese Registered Utility Model Gazette 1994-2005, Japanese Gazette Containing the Utility Model 1996-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	WO 2002/067335 A1 (INTERNATIONAL BUSINESS MACHINES CORPORATION), 2002.08.29,	
A	Fig.1A & EP 1369928 A1 & US 2004/0113161 A	1-29
	JP 2003-318193 A(SEIKO EPSON CORPORATION), 2003.11.07,	
A	Fig.7(Family: none)	1-29
	JP 3-159174 A(SANYO ELECTRIC CO., LTD.), 1991.07.09,	
A	Fig.1B(Family: none)	1-29
	JP 2003-318401 A(SEIKO EPSON CORPORATION), 2003.11.07,	
A	Fig.3(Family: none)	1-29
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Further documents are listed in the continuation of Box C. * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an		
is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is		
"P" document published prior to the international filing date but later than the priority date claimed	- '		
Date of the actual completion of the international search	Date of mailing of the international search report		
23.02.2005	08. 3. 2005		
Name and mailing address of the ISA/JP	Authorized officer 4M 2934		
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